

APPLICANT(S): PLESTED, Joyce S. et al.
SERIAL NO.: 10/089,583
FILED: July 11, 2002
Page 2

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows:

1-47. Canceled.

48. (Currently Amended) A method for eliciting in a host an antibody that recognizes a plurality of *Neisseria meningitidis* immunotypes, ~~said Neisseria meningitidis immunotypes selected from the group consisting of L1, L3, L7, L8, L9, L10, L11, and L12~~, comprising administering to said host an immunogenic composition, said immunogenic composition comprising an inner core of a *Neisseria* lipopolysaccharide (LPS), wherein a phosphoethanolamine moiety is linked to position 3 of a HepII moiety of said inner core of said [[a]] Neisseria LPS, wherein said antibody binds to an inner core LPS of Neisseria meningitidis immunotypes L1, L3, L7, L8, L9, L10, L11, and L12; and is capable of conferring passive protection against a galE mutant of an L3 immunotype Neisseria meningitidis strain.

49. (Previously Presented) The method of claim 48, wherein said immunogenic composition does not comprise an outer core of said *Neisseria* LPS.

50-54. Cancelled.

55. (Currently Amended) A method of immunizing a host against ~~each of a plurality of~~ *Neisseria meningitidis* immunotypes, ~~said Neisseria meningitidis immunotypes selected from the group consisting of L1, L3, L7, L8, L9, L10, L11, and L12~~,

APPLICANT(S): PLESTED, Joyce S. et al.
SERIAL NO.: 10/089,583
FILED: July 11, 2002
Page 3

comprising administering to said host an immunogenic composition, said immunogenic composition comprising an inner core of a *Neisseria* lipopolysaccharide (LPS), wherein a phosphoethanolamine moiety is linked to position 3 of a HepII moiety of said inner core of [[a]] said Neisseria LPS, whereby an antibody is elicited that binds to an inner core LPS of Neisseria meningitidis immunotypes L1, L3, L7, L8, L9, L10, L11, and L12; and is capable of conferring passive protection against a galE mutant of an L3 immunotype Neisseria meningitidis strain.

56. (Previously Presented) The method of claim 55, wherein said immunogenic composition does not comprise an outer core of said *Neisseria* LPS.

57-61. Canceled.

62. (New) The method of claim 48, wherein said inner core LPS of said *Neisseria meningitidis* immunotypes L1, L3, L7, L8, L9, L10, L11, and L12 is accessible to said antibody in a presence of an outer core LPS.

63. (New) The method of claim 48, wherein said inner core LPS of said *Neisseria meningitidis* immunotypes L1, L3, L7, L8, L9, L10, L11, and L12 is accessible to said antibody in a presence of a bacterial capsule.

64. (New) The method of claim 48, wherein said immunogenic composition comprises said inner core of a *Neisseria* LPS conjugated to a protein or peptide.

65. (New) The method of claim 48, wherein said inner core of a *Neisseria* LPS is an inner core of a *Neisseria meningitidis* LPS.

APPLICANT(S): PLESTED, Joyce S. et al.
SERIAL NO.: 10/089,583
FILED: July 11, 2002
Page 4

66. (New) The method of claim 55, wherein said inner core LPS of said *Neisseria meningitidis* immunotypes L1, L3, L7, L8, L9, L10, L11, and L12 is accessible to said antibody in a presence of an outer core LPS.
67. (New) The method of claim 55, wherein said inner core LPS of said *Neisseria meningitidis* immunotypes L1, L3, L7, L8, L9, L10, L11, and L12 is accessible to said antibody in a presence of a bacterial capsule.
68. (New) The method of claim 55, wherein said immunogenic composition comprises said inner core of a *Neisseria* LPS conjugated to a protein or peptide.
69. (New) The method of claim 55, wherein said inner core of a *Neisseria* LPS is an inner core of a *Neisseria meningitidis* LPS.
70. (New) A method for eliciting in a host an antibody that recognizes a majority of naturally occurring strains of *Neisseria meningitidis*, comprising administering to said host an immunogenic composition, said immunogenic composition comprising an inner core of a *Neisseria* lipopolysaccharide (LPS), wherein a phosphoethanolamine moiety is linked to position 3 of a HepII moiety of said inner core of said *Neisseria* LPS, wherein said antibody binds to an inner core LPS of a majority of naturally occurring strains of *Neisseria meningitidis*; and is capable of conferring passive protection against a galE mutant of an L3 immunotype *Neisseria meningitidis* strain.
71. (New) The method of claim 70, wherein said immunogenic composition does not comprise an outer core of said *Neisseria* LPS.

APPLICANT(S): PLESTED, Joyce S. et al.
SERIAL NO.: 10/089,583
FILED: July 11, 2002
Page 5

72. (New) The method of claim 70, wherein said inner core LPS of said majority of naturally occurring strains of *Neisseria meningitidis* is accessible to said antibody in a presence of an outer core LPS.
73. (New) The method of claim 70, wherein said inner core LPS of said majority of naturally occurring strains of *Neisseria meningitidis* is accessible to said antibody in a presence of a bacterial capsule.
74. (New) The method of claim 70, wherein said immunogenic composition comprises said inner core of a *Neisseria* LPS conjugated to a protein or peptide.
75. (New) The method of claim 70, wherein said inner core of a *Neisseria* LPS is an inner core of a *Neisseria meningitidis* LPS.
76. (New) A method of immunizing a host against a majority of naturally occurring strains of *Neisseria meningitidis*, comprising administering to said host an immunogenic composition, said immunogenic composition comprising an inner core of a *Neisseria* lipopolysaccharide (LPS), wherein a phosphoethanolamine moiety is linked to position 3 of a HepII moiety of said inner core of said *Neisseria* LPS, whereby an antibody is elicited that binds to an inner core LPS of a majority of naturally occurring strains of *Neisseria meningitidis*; and is capable of conferring passive protection against a galE mutant of an L3 immunotype *Neisseria meningitidis* strain.
77. (New) The method of claim 76, wherein said immunogenic composition does not comprise an outer core of said *Neisseria* LPS.

APPLICANT(S): PLESTED, Joyce S. et al.
SERIAL NO.: 10/089,583
FILED: July 11, 2002
Page 6

78. (New) The method of claim 76, wherein said inner core LPS of said majority of naturally occurring strains of *Neisseria meningitidis* is accessible to said antibody in a presence of an outer core LPS.
79. (New) The method of claim 76, wherein said inner core LPS of said majority of naturally occurring strains of *Neisseria meningitidis* is accessible to said antibody in a presence of a bacterial capsule.
80. (New) The method of claim 76, wherein said immunogenic composition comprises said inner core of a *Neisseria* LPS conjugated to a protein or peptide.
81. (New) The method of claim 76, wherein said inner core of a *Neisseria* LPS is an inner core of a *Neisseria meningitidis* LPS.